

FILE 'WPIX, JAPIO, HCAPLUS, INPADOC' ENTERED AT 10:11:42 ON 02 MAR 2005

L1 3 SEA ABB=ON PLU=ON JP01199467/PN
L2 0 SEA ABB=ON PLU=ON JP64199467/PN
L3 SEL PLU=ON L1 1- PRN : 1 TERM
L4 4 SEA ABB=ON PLU=ON L3
L5 SEL PLU=ON L4 1- PN : 2 TERMS

FILE 'DPCI' ENTERED AT 10:12:34 ON 02 MAR 2005

L6 0 SEA ABB=ON PLU=ON L5/PN.D
L7 0 SEA ABB=ON PLU=ON JP01199467/PN.D
L8 1 SEA ABB=ON PLU=ON JP1199467/PN.D
D L8 TI

FILE 'WPIX, JAPIO, HCAPLUS, INPADOC' ENTERED AT 10:13:18 ON 02 MAR 2005

D L4 TI 1-4
D MAX 1-4
D L4 MAX 1-4

FILE 'DPCI' ENTERED AT 10:15:08 ON 02 MAR 2005

L9 0 SEA ABB=ON PLU=ON JP 09219521/PN.D
L10 0 SEA ABB=ON PLU=ON JP 9219521/PN.D
D L8 ALL
L11 SEL PLU=ON L8 1- PN : 6 TERMS

FILE 'HCAPLUS, WPIX, JAPIO' ENTERED AT 10:16:04 ON 02 MAR 2005

L12 3 SEA ABB=ON PLU=ON L11

02mar05 08:38:59 User259284 Session D3094.2

File 2:INSPEC 1969-2005/Feb W3
(c) 2005 Institution of Electrical Engineers

Set	Items	Description
S1	56590	R1:R4 OR R7 OR R11 OR R16:R18
S2	48588	S1 AND FIELD? ?
S3	2	S1 AND EFIELD? ?
S4	48588	S2:S3
S5	921	CONTACT???? AND S4
S6	128	DRAIN? ? AND S4
S7	834768	SURFACE? ?
S8	7286	S4 AND S7
S9	75	S4 AND WIRING
S10	0	S4 AND WIRING? ?(3N)DRAIN??
S11	3	S4 AND (METAL????? OR LINE OR WIRE OR WIRING OR WIRES) (3N)-DRAIN? ?
S12	67	LATERAL????(3N)BREAKDOWN?
S13	3	LATERAL????(3N)BREAK()DOWN?
S14	304	LATERAL????(3N)VOLTAGE
S15	1002	LATERAL????(3N)TRANSISTOR??
S16	139	LATERAL????(7N)PARASIT???????
S17	1	S4 AND S12
S18	0	S4 AND S13
S19	3	S4 AND S14
S20	6	S4 AND S15
S21	0	S4 AND S16
S22	19	5AND6
S23	283	5AND7
S24	283	5AND8
S25	0	5AND9
S26	50	WIRING?? AND DRAIN??
S27	7	S1:S25 AND S26
S28	3	S13 NOT S11
S29	20	S17:S20 OR S27 OR S28
S30	302	S1:S26 AND DRAIN?? AND CONTACT??
S31	4	S30 AND DISTANCE??
S32	0	S30 AND WIDER
S33	0	S30 AND WIDEN???????
S34	17	S30 AND WIDTH
S35	0	S30 AND BROADER
S36	2	S30 AND BROADEN?
S37	5	S30 AND BROAD?????
S38	1	S29 AND S30
S39	31	S17:S20 OR S13 OR S27:S28 OR S31 OR S36:S38
S40	8	(S29 OR S34) AND ELECTRIC??? (W) FIELD
S41	20	S36:S40 AND DRAIN??
S42	13	S41 AND CONTACT?????
S43	7	S41 AND WIRING??
S44	6	S41 AND DRAIN?? (4N) CONTACT???????
S45	1	42AND43
S46	6	42AND44
S47	0	43AND44
S48	7	S45:S46 NOT S11
S49	150	NI='SIZE' AND (S9:S14 OR S16:S48)
S50	150	S49 NOT (S48 OR S11)
S51	0	S50 AND WIDER
S52	0	S50 AND WIDEN???????
S53	8	S50 AND DISTANCE??
S54	8	S50 AND SEPARAT?????????
S55	16	S53:S54
S56	5	S55 AND DRAIN??
S57	8	S55 AND CONTACT??
S58	5	56AND57
S59	6	(EDGE?? OR BOUNDAR???? OR END) AND S55
S60	5	S59 NOT S58
S61	13476	WEAK??????? (3N) FIELD? ?
S62	0	WEAK??????? (3N) EFIELD? ?
S63	20	S58 OR S60 OR S48 OR S11
S64	6	S55 NOT S63

S65	0	S64 AND S61
S66	33117	EFFECTS(2N) FIELD
S67	0	64AND66
S68	1760	S2:S50 AND S61
S69	0	S51:S55 AND S61
S70	1760	(S1:S49 OR S55) AND S61
S71	11116	(S1:S49 OR S55) AND S66
S72	12582	S68 OR S71
S73	12580	S72 NOT S63
S74	276	S73 AND DISTANCE
S75	562	S73 AND SEPARAT???????
S76	353	S73 AND CONTACT?????
S77	53	S73 AND DRAIN?????
S78	31	74AND75
S79	8	74AND76
S80	1	74AND77
S81	27	75AND76
S82	4	75AND77
S83	7	76AND77
S84	97	S74:S77 AND (MU OR MUM OR MICRON?????)
S85	4	S78:S81 AND S84
S86	22	LATERAL?? AND S74:S84
S87	3	TRANSISTOR??? AND S86
S88	0	BREAKDOWN? AND S86
S89	0	BREAK??? (2W) DOWN??? AND S86
S90	0	PARASIT????? AND S86
S91	2	84AND86
S92	0	77AND78
S93	1	77AND81
S94	32	S64 OR S79:S80 OR S82:S83 OR S85 OR S87 OR S91:S93
S95	32	S94 NOT S63
S96	13	S95 AND DRAIN???
S97	21	S95 AND CONTACT????
S98	7	96AND97
S99	1276	LATERAL?? (7N) TRANSISTOR??
S100	1114	HIGH() BREAKDOWN???
S101	11	HIGH() BREAK() DOWN???
S102	10	S99 AND S100:S101
S103	4	S102 AND PARASIT?????????
S104	2	S102 AND DRAIN??
S105	0	S102 AND CONTACT??
S106	0	S102 AND CONTACT????
S107	1	S102 AND DIODE??
S108	7	S103:S107
S109	27	S98 OR S63
S110	7	S108 NOT S109
S111	1804	S99:S101 AND (LATERAL? OR TRANSISTOR???? OR PARASITIC?????)
S112	15	S111 AND DRAIN?? (3N) CONTACT?????????
S113	15	S112 NOT (S110 OR S109)
S114	5	S113 AND (MU OR MUM OR MICRON?? OR WIDE???? OR DISTANCE?? - OR BUFFER???? OR SEPARAT????? OR ISOLAT?????)
S115	9	S113 AND FIELD
S116	0	S113 AND FIELDS
S117	10	S114:S115

02mar05 09:16:37 User259284 Session D3094.4

SYSTEM:OS - DIALOG OneSearch

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200514

(c) 2005 Thomson Derwent

File 347:JAPIO Nov 1976-2004/Oct(Updated 050208)

(c) 2005 JPO & JAPIO

Set	Items	Description
S1	141622	(5 OR 6 OR 7 OR 8 OR 9 OR 10 OR FIVE OR SIX OR 7 OR 8 OR 9 OR 10) (W) (MU OR MUM OR MICRON??)
S2	100	DIODE(10N) SHORT???????? AND SHORT????????(10N) GATE
S3	194	DIODE(10N) SHORT???????? AND SHORT????????(10N) SOURCE
S4	98	DIODE(10N) SHORT???????? AND SHORT????????(10N) ELECTRODE
S5	46	DIODE(10N) SHORT???????? AND SHORT????????(10N) WIRING??
S6	83424	GATE(2N) ELECTRODE? ?
S7	3021	SOURCE(2N) WIRING??
S8	1	1AND2
S9	2	1AND3
S10	2	1AND4
S11	1	1AND5
S12	711	1AND6
S13	15	1AND7
S14	3	12AND13
S15	7	S8:S11 OR S14
S16	288	S2:S5 AND (SHORTS OR SHORTING OR SHORTED OR SHORT????(3N) - (SOURCE OR GATE OR CIRCUIT????))
S17	14	16AND6
S18	1	16AND7
S19	2	16AND1
S20	23	S2 AND S3
S21	4	17AND20
S22	7	S18:S19 OR S21
S23	5	S22 NOT S15
S24	3	S20 AND S4
S25	0	S20 AND S5
S26	1	S24 NOT (S22 OR S15)
S27	81	S1 AND CONTACT????(3N) DRAIN????
S28	11	S1 AND WIRING????(3N) DRAIN????
S29	845	S1 AND CONTACT????(3N) (REGION?? OR AREA?? OR ZONE?? OR LOCATION?? OR POSITION?? OR INTERFAC????)
S30	6324	S1 AND (MU OR MICRON?? OR MUM) (4N) (DISTANCE OR LENGTH OR WIDE???? OR BUFFER???? OR SEPARAT????)
S31	94719	(E OR ELECTRIC??? OR WEAK???? OR EFFECTS) (2N) FIELD? ?
S32	1	27AND28
S33	39	S27:S28 AND S29
S34	18	S27:S28 AND S30
S35	4	S27:S28 AND S31
S36	12	33AND34
S37	1	S33:S34 AND PARASIT????
S38	9	S33:S34 AND BREAK????????
S39	4	S33:S34 AND LATERAL??
S40	25	S33:S34 AND TRANSISTOR??
S41	0	36AND37
S42	6	S23 OR S26
S43	35	S28 OR S32 OR S35 :S39
S44	14	40AND43
S45	29	S43 AND CONTACT???? AND DRAIN???
S46	14	44AND45
S47	14	S46 NOT S42
S48	1	S47 AND DIODE??
S49	2	S43 AND DIODE??
S50	2	S49 NOT S42
S51	15	S47 OR S50

01mar05 15:25:23 User259284 Session D3093.2

SYSTEM:OS - DIALOG OneSearch

File 348:EUROPEAN PATENTS 1978-2005/Feb W03

File 349:PCT FULLTEXT

File 324:German Patents Fulltext 1967200508

*File 324: Original German plus English translation.

Set	Items	Description
S1	4104	DRAIN(2N)CONTACT??????
S2	10527	DRAIN(2N)(WIRE?? OR WIRING?? OR LINE OR LINES OR CONDUCTOR)
S3	103024	CONTACT??????(8N)(WIRE?? OR WIRING?? OR LINE OR LINES OR CONDUCTOR)
S4	472	1AND2AND3
S5	103575	(WIDER OR WIDEN???? OR EXTEN???? OR LARGER OR INCREAS???? OR GREATER??)(5N)CONTACT??????
S6	176155	(WIDER OR WIDEN???? OR ENTEN???? OR LARGER OR INCREAS???- ??? OR GREATER??)(5N)SURFACE
S7	175	4AND5
S8	61	4AND6
S9	31	7AND8
S10	36843	DISTANCE??(8N)CONTACT????????
S11	6	9AND10
S12	111475	(5 OR FIVE)(2W)(MU OR MUM OR MICRON?????)
S13	135353	(6 OR SIX OR SEVEN OR EIGHT OR NINE OR TEN OR 10 OR 9 OR 8 OR 7)(2W)(MU OR MUM OR MICRON?????)
S14	10	9AND12
S15	11	9AND13
S16	17	S11 OR S14 OR S15
S17	14	S16 AND TRANSISTOR????/TI,AB,CM
S18	1	PARASITIC????/TI,AB,CM AND S16
S19	6085	(POWER(2N)MOS OR MOSFET???)/TI,AB,CM
S20	2	16AND19
S21	6098	S17:S20
S22	8650	BREAKDOWN()VOLTAGE
S23	383	BREAK()DOWN()VOLTAGE
S24	1	S16 AND DIODE??/TI,AB,CM
S25	4	S16 AND S22:S23
S26	4	S16 AND DIODE??
S27	9	(S18 OR S20 OR S24:S26)
S28	9	16AND27
S29	9154	(MU OR MUM OR MICRON????)(9N)DISTANCE
S30	3676	(MU OR MUM OR MICRON????)(9N)EDGE??
S31	24072	(MU OR MUM OR MICRON????)(9N)(REGION OR ZONE OR AREA)
S32	1946	S10 AND S12:S13
S33	216	29AND30AND31
S34	15	32AND33
S35	15	S34 AND S1:S11
S36	6	S14:S23 AND S35
S37	2	WIDER AND S35
S38	0	WIDEN???? AND S35
S39	1	BROADER?? AND S35
S40	1	BROADEN???? AND S35
S41	3	S35 AND DRAIN/TI,AB
S42	5	S35 AND CONTACT????/TI,AB
S43	1	41AND42
S44	11	S36:S43 NOT S28
S45	0	DISTANCE(8W)CONTACT??????
		(8W)DRAIN()WIRING
S46	0	CONTACT??????(8W)DRAIN()WIRING(8W)DISTANCE
S47	43	CONTACT??????(8W)DRAIN()WIRING
S48	19	DRAIN()WIRING(8W)CONTACT??????
S49	0	DRAIN()WIRING(8W)CONTACT??????
		(10W)(MICRON?? OR MU OR MUM)
S50	0	CONTACT??????(8W)DRAIN()WIRING(10W)
		(MICRON?? OR MU OR MUM)
S51	0	DRAIN()WIRING(10W)
		(MICRON?? OR MU OR MUM)
S52	11	S47:S48 AND DRAIN/TI,AB
S53	6	S47:S48 AND CONTACT????/TI,AB
S54	8	S47:S48 AND WIRING/TI,AB
S55	2	52AND53
S56	3	52AND54
S57	1	53AND54
S58	6	S55:S57 NOT (S44 OR S28)
S59	2251	DIODE??(5N)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S60	2355	DIODE??(10W)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S61	2054	(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)(10W)DIODE??
S62	1895	(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)(10W)GATE
S63	1837	GATE(10W)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S64	3295	ELECTRODE(10W)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S65	3565	(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)(10W)ELECTRODE
S66	2140	(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)(10W)SOURCE
S67	2032	SOURCE(10W)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S68	3164	(CONDUCTOR OR WIRE OR WIRING)(10W)(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)
S69	3382	(SHORTCIRCUIT???? OR SHORT()CIRCUIT??? OR SHORTED OR SHORTING)(10W)(CONDUCTOR OR WIRE OR WIRING)
S70	3569	S60:S61
S71	2911	S62:S63
S72	5195	S64:S65
S73	3404	S66:S67
S74	5153	S68:S69
S75	305	70AND71
S76	47	72AND75
S77	21	73AND76
S78	3	74AND77
S79	305	70AND71
S80	154	70AND72
S81	326	70AND73
S82	176	70AND74
S83	305	70AND75
S84	305	71AND75
S85	47	72AND75
S86	107	73AND75
S87	27	74AND75
S88	223	74AND71
S89	176	74AND70
S90	484	74AND72
S91	268	74AND73
S92	540	72AND73
S93	928	71AND73
S94	743	71AND72
S95	47	79AND80
S96	21	79AND80AND81
S97	3	79AND80AND81AND82
S98	0	S97 NOT S78
S99	3	79AND80AND82AND83
S100	3	79AND80AND82
S101	47	79AND80
S102	107	79AND81
S103	27	79AND82
S104	305	79AND83
S105	21	101AND102
S106	3	101AND103
S107	9	102AND103
S108	24	(S99:S100 OR S105:S107) NOT S78
S109	2	S108 AND
		SHORT????????(9N)DIODE??/TI,AB,CM

Date 2/25/05 Serial # 10/748,187 Priority Application Date 11/27/99
 Your Name M. Harris Examiner # _____
 AU 2822 Phone 999-1838 Room 5A30
 In what format would you like your results? Paper is the default. ☒ PAPER ☐ DISK ☐ EMAIL

If submitting more than one search, please prioritize in order of need. Need before 3/3

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs _____ Nonpatent Literature _____ Other _____
 Secondary Refs _____ Foreign Patents _____
 Teaching Refs _____

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 6+19

Problem: See pages 1-4

Solution: " " 4-15

Please focus on the last paragraph of claim 6 ("a distance ... or more.") and claim 19 (see page 30 lines 23-27 and page 31 lines 1-4).

Use Only

Searcher: HARRISON Type of Search
 Searcher Phone: 22511 Structure (#) _____
 Searcher Location: STIC-EIC2800, JEF-4B68 Bibliographic ☒
 Searcher Picked Up: 3-1 Litigation _____
 Searcher Completed: 3-2-05 Fulltext ☒
 Searcher Prep/Rev Time: 72 Patent Family _____
 Search Time: 135 Other DPCI

Vendors

STN ☒
 Dialog ☒
 Questel/Orbit _____
 Lexis-Nexis _____
 WWW/Internet _____
 Other _____